

## Project Planning Phase

### Project Planning Template (Product Backlog, Sprint Planning, Stories, Story points)

Date	21 June 2025
Team ID	LTVIP2025TMID34492
Project Name	HematoVision : Advanced Blood Cell Classification Using Transfer Learning
Maximum Marks	5 Marks

#### Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Image data collection	USN-1	As a user, I want to collect and label different blood cells images for training the model.	3	High	1.Boddu Kumari 2. Bandla Sathvik 3. Bathula Naga Manoj 4. Betha Hari Srimukhi
Sprint-1	Data preprocessing	USN-2	As a developer, I want to preprocess the images (resize, normalization) to improve model accuracy.	2	High	1.Boddu Kumari 2. Bandla Sathvik 3. Bathula Naga Manoj 4. Betha Hari Srimukhi

<b>Sprint</b>	<b>Functional Requirement (Epic)</b>	<b>User Story Number</b>	<b>User Story / Task</b>	<b>Story Points</b>	<b>Priority</b>	<b>Team Members</b>
Sprint-2	Model traning	USN-3	As a data scientist, I want to apply transfer learning on a pre-trained CNN model to classify blood cell image types.	5	high	1.Boddu Kumari 2. Bandla Sathvik 3. Bathula Naga Manoj 4. Betha Hari Srimukhi
Sprint-2	Model evaluation	USN-4	As a developer, I want to evaluate the model using accuracy, confusion matrix, and classification report.	2	medium	1.Boddu Kumari 2. Bandla Sathvik 3. Bathula Naga Manoj 4. Betha Hari Srimukhi
Sprint-3	Ui development	USN-5	As a user, I want to upload a blood cell image through a simple web or mobile app and get classification results.	3	medium	1.Boddu Kumari 2. Bandla Sathvik 3. Bathula Naga Manoj 4. Betha Hari Srimukhi

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint -3	Deployment	USN-6	As a developer, I want to deploy the trained model and integrate it with the frontend for real-time use.	4	low	1.Boddu Kumari 2. Bandla Sathvik 3. Bathula Naga Manoj 4. Betha Hari Srimukhi

**Project Tracker, Velocity & Burndown Chart: (4 Marks)**

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	15 June 2025	20 June 2025	20	20 June 2025
Sprint-2	20	6 Days	17 June 2025	22 June 2025	20	22 June 2025
Sprint-3	20	6 Days	19 June 2025	24 June 2025	20	24 June 2025
Sprint-4	20	6 Days	21 June 2025	26 June 2025	20	26 June 2025

**Velocity:**

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{\textit{sprint duration}}{\textit{velocity}} = \frac{20}{10} = 2$$

**Burndown Chart:**

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.

<https://www.visual-paradigm.com/scrum/scrum-burndown-chart/>

<https://www.atlassian.com/agile/tutorials/burndown-charts>

**Reference:**

<https://www.atlassian.com/agile/project-management>

<https://www.atlassian.com/agile/tutorials/how-to-do-scrum-with-jira-software>

<https://www.atlassian.com/agile/tutorials/epics>

<https://www.atlassian.com/agile/tutorials/sprints>

<https://www.atlassian.com/agile/project-management/estimation>

<https://www.atlassian.com/agile/tutorials/burndown-charts>